

P70986US0Abstract of the Disclosure

A method using fluorescence microscopy for image evaluation using a laser scanning microscope in which an at least partially spectrally resolved detection of the fluorescence spectrum occurs. Reference spectra are used for spectral demixing. Temporally and/or spectrally variable dyes and/or dye combinations are employed for recording of the reference spectra. Finally, the recorded reference spectra are inspected for image evaluation.